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LD 19: Code Restriction

Overlay program 19 allows data for code restrictions to be created or modified.

Code Restriction is used to control the digits that can be dialed on a COT or FEX trunk route by a Toll Denied (TLD), Conditionally Toll Denied (CTD) or Conditionally Unrestricted (CUN) Class of Service telephone. See also New Flexible Code Restriction in LD 49.

With Release 14, Route 31 is no longer an exclusively private route. It can be configured as a private route in LD 16.

For Option 11 Systems Overlay program 19 is replaced by Overlay 49.

Prompts and responses

Table of Contents

Section	Page
<i>Prompts and responses by data block :</i>	
ANI: Automatic Number Identification data block	494
CRB: Code Restriction data block	495
FGDB: Feature Group D data block	496

ANI: Automatic Number Identification data block

Prompt	Response	Comment
REQ	aaa	Request
TYPE	ANI	Type of data block = ANI (Automatic Number Identification)
ANII	0-31	ANI Data Block Index
ANIT	xxx	Invalid ANI treatment
NPA	200- 999	First 3 ANI digits in NPA format
3ANI	xxx	3 Digit ANI (denied) allowed
SLV3	NXX	Number of digits for screening
NXX	xxx yyy	Range of end-office numbers
SLV6	xxx	Number of digits for screening
- SUB	xxxx yyyy	Range of subscriber numbers

CRB: Code Restriction data block

Prompt	Response	Comment
REQ	aaa	Request
TYPE	CRB	Type of data block = CRB (Code Restriction)
NCOS	0-99	NCOS value for subscribers
CUST	xx	Customer number associated with this data block
ROUT	0-511	Route number
TORT	0-511	To Route
CLR	aaaa	Codes (aaaa = DENY or ALLOW)
ALLOW	200-999 ... 200-999	NXX, NPA codes allowed
DENY	200-999 ... 200-999	NXX, NPA codes denied

FGDB: Feature Group D data block

Prompt	Response	Comment
REQ	aaa	Request
TYPE	FGDB	Type of data block = Feature Group D
FGNO	0-127	Feature Group D block number
CIC	0000-9999	Carrier ID
CCLS	a...a	Carrier Class (a...a = IC, INC, or CONS)
PRES	(YES) NO	Presubscription
OVLP	(YES) NO	Overlapped outpulsing by Local Exchange Carrier (LEC)
CCAN	aaa bbb	Call Categories on calls to Carrier, and ANI screening (aaa = NAM, NA0, INT, IN0, OPR, SAM, SAX, SA0, CUT, or (ALL); bbb = (YES) or NO)
SAC	xxx xxx xxx	Service Access Codes
ANII	0-31	ANI Data Block Index
CDAN	(NO) YES	ANI Digits in CDR Records
SHAN	(NO) YES	Show ANI Digits on Terminal Displays
PRTD	(NO) ALL	Printout Control for Invalid II or ANI Digits
LDAC	aaa	Long Distance Access Code (aaa = AC1 or AC2)
LAAC	aaa	Local Area Access Code (aaa = AC1 or AC2)
OPER	DN nnn ... nnn RAN nnn	Treatment for 0+, 0- calls
INTR	(NO) YES	Intercept Treatment
ADFT	(OVF) RAN nnn DN nnn ... nnn	Intercept Treatment for Invalid Address Format
IIT	(OVF) RAN nnn DN nnn ... nnn	Intercept Treatment for Invalid IIs
IITP	xx yyyy zz	Valid II, II Type, and NCOS for ANI screening bypass
CPAR	(NO) YES	Call Processing parameters
INIT	(NO) YES	Length of Initial String of dialed digits on outgoing calls
ENBL	1-(12)-30	Long Enbloc dialing timeout
ENBS	1-(5)-30	Short Enbloc dialing timeout
IFTO	2-(120)-254	Inter-field FGD timeout in increments of 2 seconds
DGTO	128-(640)-5000	Interdigits timeout
MONT	0-(256)-2048	Minimum On-Hook Time

Alphabetical list of prompts

Prompt	Response	Comment	Pack/Rel
3ANI	(DENY) NCOS xx	3 Digit ANI denied Apply invalid ANI treatment 3 Digit ANI allowed Use this NCOS value (0-99)	fdg-17
ADFT	(OVF) RAN nnn DN nnn . . . nnn	Intercept Treatment for Invalid Address format	fgd-17
ALLOW	200-999 ... 200-999 <cr>	NXX, NPA codes Allowed Proceed to next prompt Prompted when CLR = DENY or <cr>.	basic-1
ANII	0-31	ANI Data Block Index When ANII = 0, there is no ANI screening; 1-31 is the ANI block index number.	fgd-17
ANIT	(OVF) RAN xxx DN xxxx NCOS xx	Invalid ANI treatment Overflow tone RAN route (0-511) Internal or external DN (1-16 digits) Network Class of Service value (0-99)	fgd-17
CCAN	aaa (YES) aaa NO	Call Categories on calls to Carrier, and ANI screening provided. Call Categories on calls to Carrier, and ANI screening not provided.	fgd-17
		aaa can be any of the following:	
	NAM NA0	1 + (inside World Zone 1) 0 + (inside World Zone 1)* (see note below)	
	INT IN0	1 + (outside World Zone 1) 0 + (outside World Zone 1)* (see note below)	
	OPR	0 - calls	
	SAM SAX SA0	1 + (Embodied SAC) 1 + (External SAC) 0 + (External SAC)* (see note below)	

LD 19

Prompt	Response	Comment	Pack/Rel
	CUT (ALL)	Cut-Through All call types (Default when REQ = NEW) Note: aaa entries marked with the symbol * use zero; not the letter O. If the letter is entered in place of the number zero, no error appears. However, NAM and SAM will be overridden.	
CCLS	IC INC CONS	Inter-Exchange Carrier Class International Carrier Class Consolidated Carrier Class	fgd-17
CDAN	(NO) YES	ANI Digits in CDR Records	fgd-17
CIC	0000-9999	Carrier ID. Response must be three or four digits.	fgd-17
CLR	DENY	Denied codes. If CLR = DENY all NPA/NXX codes are denied except those entered in response to prompt ALLOW (only ALLOW is prompted).	basic-1
	ALLOW	Allowed codes. If CLR = ALLOW all NPA/NXX codes are allowed except those entered in response to prompt DENY (only DENY is prompted).	
	<cr>	Proceed to next prompt when REQ = CHG When changing a CRB, if CLR = <cr> then both ALLOW and DENY are prompted. For a new CRB, CLR must = ALLOW or DENY.	
CPAR	(NO) YES	Call Processing Parameters	fgd-17
CUST	xx	Customer number associated with this data block as defined in LD 15	basic-1
DENY	200-999 ... 200-999 <cr>	NXX, NPA codes Denied Proceed to next prompt Prompted when CLR = ALLOW or <cr>.	basic-1

Prompt	Response	Comment	Pack/Rel
DGTO	128-(640)-5000	Interdigits timeout The maximum time between two digits within the same field, in multiples of 128 milliseconds. 5000 rounds down to 4992.	fgd-17
ENBL	1-(12)-30	Long Enbloc dialing timeout Before initial string is complete on outgoing calls.	fgd-17
ENBS	1-(5)-30	Short Enbloc dialing timeout After initial string is complete on outgoing calls.	fgd-17
FGNO	0-127	Feature Group D block number The system automatically assigns FGNO numbers in sequential order when REQ = NEW.	fgd-17
IFTO	2-(120)-254	Inter-field FGD Timeout in increments of 2 seconds The maximum time between two fields on incoming calls (in seconds).	fgd-17
IIT	(OVF) RAN nnn DN nnn . . . nnn	Intercept Treatment for Invalid IIs. Where: • OVF = Overflow tone • RAN nnn = RAN route • DN nnn . . . nnn = Network or local DN	fgd-17

LD 19

Prompt	Response	Comment	Pack/Rel																											
IITP	xx yyyy zz	Valid II, II Type, and NCOS for ANI screening bypass. Where: xx = II in range 00-99 yyyy = one of the following II types: • REGU = Regular • 4A8P = 4 or 8 party • HOTL = Hotel/Motel • CLES = Coinless • TST3 = Test 3 • AIOD = Automatic Identification of Outward Dialing • COIN = Coin • TST7 = Test 7 zz = optional NCOS number defining ANI screening bypass (00-99) When IITP = <CR> and REQ = NEW, the following shows the default arrangement. International codes (12-19) are left undefined. <table><tr><td>xx</td><td>yyyy</td><td>zz</td></tr><tr><td>00</td><td>REGU</td><td>no</td></tr><tr><td>01</td><td>4A8P</td><td>no</td></tr><tr><td>06</td><td>HOTL</td><td>no</td></tr><tr><td>07</td><td>CLES</td><td>no</td></tr><tr><td>10</td><td>TST3</td><td>no</td></tr><tr><td>20</td><td>AIOD</td><td>no</td></tr><tr><td>27</td><td>COIN</td><td>no</td></tr><tr><td>95</td><td>ST7</td><td>no</td></tr></table>	xx	yyyy	zz	00	REGU	no	01	4A8P	no	06	HOTL	no	07	CLES	no	10	TST3	no	20	AIOD	no	27	COIN	no	95	ST7	no	fgd-17
xx	yyyy	zz																												
00	REGU	no																												
01	4A8P	no																												
06	HOTL	no																												
07	CLES	no																												
10	TST3	no																												
20	AIOD	no																												
27	COIN	no																												
95	ST7	no																												
INIT	(NO) YES	Length of Initial String	fgd-17																											
INTR	(NO) YES	Intercept Treatment	fgd-17																											
LAAC	AC1, AC2	Local Area Access Code Prompted with Network Alternate Route Selection (NARS) package 58.	fgd-17																											
LDAC	AC1, AC2	Long Distance Access Code Prompted with Network Alternate Route Selection (NARS) package 58.	fgd-17																											

Prompt	Response	Comment	Pack/Rel
MONT	0-(256)-2048	Minimum On-hook Time The minimum amount of time between acknowledgment wink and answer off-hook signal, in multiples of 128 milliseconds.	fgd-17
NCOS	0-99	NCOS value for subscribers Reprompts current level NPA, NXX, or SUB.	fgd-17
NPA	100-999 200-999	First 3 ANI digits in NPA format; prior to Release 19 First 3 ANI digits in NPA format; Release 19 and later. Only 3 digits are allowed, even when using 1+ dialing. NPA accepts only 3 digits for NPA even if 1 + dialing is in use.	nanp/ fgd-17
	<cr>	Return to REQ	
NXX	xxx yyy	Range of end office numbers Prompted if SLV3 = NXX. Where: • xxx = starting or only NXX • yyy = ending NXX (optional)	fgd-17
	<cr>	Reprompts NPA	
OPER	DN nnn. . . nnn RAN nnn	Treatment for 0+, 0- calls. Where: • DN nnn . . . nnn = 1-16 digit network or local DN • RAN nnn = RAN route (0-511)	fgd-17
OVLP	(YES) NO	Overlapped outpulsing by Local Exchange Carrier (LEC)	fgd-17
PRES	(YES) NO	Presubscription	fgd-17
PRTD	(NO) ALL REJ	Printout Control for Invalid II or ANI Digits No printout Printout for all invalid ANI and II digits Printout all invalid II digits. Printout invalid ANI when not mapped to NCOS.	fgd-17

LD 19

Page 502 of 1004 Alphabetical list of prompts

Prompt	Response	Comment	Pack/Rel
REQ		Request	basic-1
	CHG	Change the existing data block	
	END	Exit overlay program	
	MOV	Move data block to a new route	
	NEW	Add new data block to the system	
	OUT	Remove the data block	
	PRT	Print FGD or ANI data block	
ROUT	0-511	Route number	basic-1
SAC	xxx xxx xxx . . . xxx	Service Access Codes. Default codes: 700, 800, 900, 601.	fgd-17
SHAN	(NO) YES	Show ANI Digits on Terminal Displays	fgd-17
SLV3		Number of digits for screening	fgd-17
	NXX	6 or 10 digit screening. NXX prompt follows.	
	NCOS xx	NCOS xx = 3 digit screening (0-99), all NPA map to NCOS value, NPA is reprompted.	
SLV6	SUB	10 digit screening level, SUB prompt appears next. Not allowed if an ending NXX level (yyy) was entered at NXX prompt.	fgd-17
	NCOS xx	6 digit screening level, reprompts NXX. All XXXX numbers under the NPA map to NCOS value (0-99)	
SUB	xxxx yyyy	Range of subscriber numbers. Where: • xxxx = starting or only subscriber number • yyyy = ending subscriber number (optional)	fgd-17
TORT		To Route	basic-1
	0-511	New route number TORT is prompted when REQ = MOV.	
TYPE		Type of data block	basic-1
	ANI	ANI screening data block (for Feature Group D)	
	CRB	Code Restriction data Block	
	FDGB	Feature Group D data Block	